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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/865,693	05/29/2001	Hong Jeong	401220	5751	
23548 7	590 05/05/2004		EXAM	EXAMINER	
LEYDIG VOIT & MAYER, LTD 700 THIRTEENTH ST. NW			PHILIPPE, GIMS S		
SUITE 300	NIII SI. NW		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005-3960			2613	5	
			DATE MAILED: 05/05/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
,	09/865,693	JEONG ET AL.	
Office Action Summary	Examiner	Art Unit	
•	Gims S Philippe	2613	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address -	•
• •	DIVIQUET TO EVDIDE 2 N	MONTH(S) EDOM	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATIOI - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a in If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thi iod will apply and will expire SIX (6) MO tute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	ation.
Status			
1) Responsive to communication(s) filed on			
	his action is non-final.		
3) Since this application is in condition for allow	wance except for formal mat	ters, prosecution as to the merit	s is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
 4) Claim(s) 1-16 is/are pending in the applicating 4a) Of the above claim(s) is/are with the state of the above claim(s) is/are allowed. 5) Claim(s) 1-8 is/are rejected. 7) Claim(s) 9-16 is/are objected to. 8) Claim(s) are subject to restriction and claim(s) are subject to restriction are subject to restriction and claim(s) are subject to restriction are subject to restrict	Irawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Exam	iner.		
10) The drawing(s) filed on is/are: a) a	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to t	• , ,	• •	
Replacement drawing sheet(s) including the corr		•	• ,
11) The oath or declaration is objected to by the	Examiner. Note the attache	a Office Action of form P10-152	<u>.</u> .
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bure * See the attached detailed Office action for a I	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No I received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 4. 		s)/Mail Date nformal Patent Application (PTO-152) ·	

Application/Control Number: 09/865,693

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DETAILED ACTION

This is a first action in response to application no. 09/856,693 filed on May 29, 2001 in which claims 1-16 are presented for examination.

Note: It appears that the applicant intended to make claim 16 dependent upon claim11, however, a typographical shows claim 17. The examiner will make claim 16 dependent upon claim 11 until the applicant clarifies the matter.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-8 are rejected under 35 U.S.C. 102 (b) as being anticipated by Cox (US Patent no. 5383013).

Regarding claim 1, Cox discloses a real-time stereo image matching system comprising a signal converter means for converting an image input from a first camera and a second camera into a digital signal (See fig. 2, cameras 21 and 22 and computer workstation 23 which performs an analog to digital conversion, and col. 3, lines 65-68 and col. 4, lines 1-14), an image matching means for calculating a matching cost based on a pair of pixels on one scan line of the first and second digital image signals (See

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col. 4, lines 4-8, lines 26-45), , tracing a decision value which determines a minimum matching cost (See Col. 7, lines 40-55), and outputting the decision value as an estimated disparity according to predetermined activation information (See col. 7, lines 66-68, col. 8, lines 1-8, and col. 9, lines 1-11).

As per claim 2, the cameras in Cox have parallel axes to each other with co-planar foal planes (See Cox col. 1, lines 53-59).

As per claim 3, Cox further calculates the matching cost after occlusion information for pixels which do not match in the scan line is added to the pair of pixels (See Cox col. 4, lines 46-54 and col. 5, lines 1-5).

As per claims 4-8, the memory means and the clock control means are considered inherent features of the workstation controlling the operation with its processor (See col. 4, lines 8-21, and col. 8, lines 20-27).

- 3. Claims 9-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Okino et al. (US Patent no. 5740337) teaches stereoscopic imaging system with electronically controlled convergence angle.

Lipton (US Patent no. 4562463) teaches stereoscopic television system with field storage for sequential display of right and left images.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gims S Philippe whose telephone number is (703) 305-1107. The examiner can normally be reached on M-F (9:30-7:00) Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris S Kelley can be reached on (703) 305-4780. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gims S Philippe Primary Examiner Art Unit 2613

GSP